

Flight Summary MACPEX 16 APR 2011

General Information

Flight date- 16 APR 2011

Flight duration – 5.0 hours

Crew – RKE/DOM

Instruments flown: 2DS, ALIAS, CPI, CIMS, CLH, DLH, FCAS, FCDP, FISH ,
HARWV, HARHAL, HVPS, JLH, MMS, O3, O3LITE, PALMS, SID3, ULH, SP2,
VIPS

1205	Takeoff	1700	Land
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Flight Log

Engine

Start 1147

Data Rec	1150	Begin	1558	Landing	1700
On		Descent			

Gear extension/retractions

Gear Up	1206
Gear Down	1651

Weather Observations

Ascended through light cirrus clouds near FL380 en route 12:47.
Cloud band evident at predicted track. Not continuous along route.
Tops of clouds appeared to be at FL360 .
Bottoms were noted at FL300 where consistent.
The East end of the track filled in on first leg but dissipated noticeably by return.
Clear over balloon site.

Flight Profile

Transit to range was uneventful.
Entered the southern end of the data track but at lower than desired altitude due to ATC FL270. Able to ascent to FL310 on East bound leg into cloud base. Ascended to FL350, due to ATC in route.
Descended back to FL310 for last leg.
Ascended through overcast on last Easterly pass as we were below visible clouds.
Ascended to FL560 to Balloon point .
Spiral decent to FL410 and RTB 16:13.
MMS Pitch and Yaw ONLY maneuvers accomplished at 1526. Unable to compete MSS Box due to ATC vectors.
CIN on @ 11:54:50

Instrument Notes

MMS Pitch and Yaw ONLY maneuvers accomplished at 1526. Unable to compete MSS Box due to ATC vectors.

FISH failed on start up. Multiple resets beginning at 1242. Last attempt at 14:33.

Alias faield at 13:40. Multiple restarts successful for progressively shorter time periods.

Shut down for more than 10 minutes at 15:13 and restart successful.

HARHAL and HARVWV fail below 10,000'. No action per checklist.